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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Application Number	09/823,657
Filing Date	March 30, 2001
First Named Inventor	Welch, William J.
Group Art Unit	1623 1627
Examiner Name	Louise N. Leary
Attorney Docket Number	02307E-065021US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
LL	AA	6,270,954	B1	Welch, et al.	8/01	
LL	AB	5,276,059		Caughey, et al.	1/4/94	
LL	AC	5,900,360		Welch, et al.	5/4/99	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AD							
	AE							
	AF							

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LL	AG	Back, et al., Increased Thermal Stability of Proteins in the Presence of Sugars and Polyols, <i>Biochemistry</i> , 18:5191-5196 (1979)	
LL	AH	Bilsky, et al., Osmotic Reversal of Temperature Sensitivity in Escherichia coli, <i>Journal of Bacteriology</i> 113:76-81 (1973)	
LL	AI	Brown, et al., Correcting Temperature-sensitive Protein Folding Defects, <i>J. Clin. Invest.</i> , 99:1432-1444 (1997)	
LL	AJ	Brown, et al., Chemical chaperones correct the mutant phenotype of the ΔF508 cystic fibrosis transmembrane conductance regulator protein, <i>Cell Stress & Chaperones</i> , 1 (2), 117-125 (1996)	
LL	AK	Burg, Molecular basis of osmotic regulation, Walter B. Cannon Lecture, <i>American Physiological Society</i> F983-F996, (1995)	
LL	AL	Bychkova, et al., Folding intermediates are involved in genetic diseases?, <i>Federation of European Biochemical Societies</i> , 359:6-8 (1995)	
LL	AM	Cheng, et al., Functional activation of the cystic fibrosis trafficking mutant ΔF508-CFTR by overexpression, <i>American Physiological Society</i> , L615-L624 (1995)	

Examiner Signature

Louise N. Leary

Date Considered

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Filing Date	March 30, 2001
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Attorney Docket Number	02307E-065021US

Sheet **4** of **5**

LL	AN	Chowdary, <i>et al.</i> , Accumulation of p53 in a Mutant Cell Line Defective in the Ubiquitin Pathway, <i>Molecular and Cellular Biology</i> , 14:1997-2003 (1994)	
LL	AO	Denning, <i>et al.</i> , Processing of mutant cystic fibrosis transmembrane conductance regulator is temperature-sensitive, <i>Nature</i> , 358:761-764 (1992)	
LL	AP	Edington, <i>et al.</i> , Inhibition of Heat Shock (Stress) Protein Induction by Deuterium Oxide and Glycerol: Additional Support for the Abnormal Protein Hypothesis of Induction, <i>Journal of Cellular Physiology</i> , 139:219-228, (1989)	
LL	AQ	Egan, <i>et al.</i> , Differential expression of ORCC and CFTR induced by low temperature in CF airway epithelial cells, <i>American Physiological Society</i> , C243-C251 (1995)	
LL	AR	Finley, <i>et al.</i> , Thermolability of Ubiquitin-Activating Enzyme from the Mammalian Cell Cycle Mutant ts85, <i>Cell</i> , 37:43-55 (1984)	
LL	AS	Gekko, <i>et al.</i> , Mechanism of Protein Stabilization by Glycerol: Preferential Hydration in Glycerol-Water Mixtures, <i>Biochemistry</i> , 20:4667-4676 (1981)	
LL	AT	Gekko, <i>et al.</i> , Thermodynamic and Kinetic Examination of Protein Stabilization by Glycerol, <i>Biochemistry</i> , 20:4677-4686 (1981)	
LL	AU	Gerlsma, <i>et al.</i> , The Effect of Polyhydric and Monohydric Alcohols on the Heat-Induced Reversible Denaturation of Lysozyme and Ribonuclease, <i>Int. J. Peptide Protein Res.</i> , 4:377-383 (1972)	
LL	AV	Ginsberg, <i>et al.</i> , Induction of Growth Arrest by a Temperature-Sensitive p53 Mutant Is Correlated with Increased Nuclear Localization and Decreased Stability of the Protein, <i>Molecular and Cellular Biology</i> , 582-585 (1991)	
LL	AW	Gordon, <i>et al.</i> , Temperature-sensitive Mutations in the Phage P22 Coat Protein Which Interfere with Polypeptide Chain folding, <i>The Journal of Biological Chemistry</i> , 268:9358-9368 (1993)	
LL	AX	Hawthorne, <i>et al.</i> , Osmotic-Remedial Mutants. A New Classification for Nutritional Mutants in Yeast, <i>Genetics</i> , 50:829-839 (1964)	
LL	AY	Henle, <i>et al.</i> , Protection against Heat-induced Cell Killing by Polyols in <i>Vitro</i> , <i>Cancer Research</i> , 43:1624-1627 (1983)	
LL	AZ	Lin, <i>et al.</i> , Modification of Membrane Function, Protein Synthesis, and Heat Killing Effect in Cultured Chinese Hamster Cells by Glycerol and D ₂ O, <i>Cancer Research</i> , 44:5776-5784 (1984)	
LL	AAA	Lin, <i>et al.</i> , Why do Some Organisms Use a Urea-Methylamine Mixture as Osmolyte? Thermodynamic Compensation of Urea and Trimethylamine N-Oxide Interactions with Protein, <i>Biochemistry</i> , 33:12695-12701 (1994)	

Examiner
Signature

Louise N. Leary

Date
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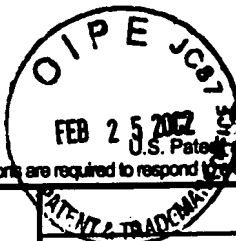
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Group Art Unit	4623-1627
Examiner Name	Louise N. Leary
Attorney Docket Number	02307E-085021US

CC	ABB	Maroney, <i>et al.</i> , Cloning and characterization of a thermolabile v-src gene for use in reversible transformation of mammalian cells, <i>Onocogene</i> , 7:1207-1214 (1992)	
CC	ACC	Martinez, <i>et al.</i> , Cellular localization and cell cycle regulation by a temperature-sensitive p53 protein, <i>Genes & Development</i> , 5:151-159 (1991)	
CC	ADD	Mitraki, <i>et al.</i> , Global Suppression of Protein Folding Defects and Inclusion Body Formation, <i>Science</i> , 253:54-58 (1991)	
CC	AEE	Russell, Temperature-Sensitive Osmotic Remedial Mutants of Escherichia coli, <i>Journal of Bacteriology</i> , 112:661-665 (1972)	
CC	AFF	Ryan, <i>et al.</i> , Alteration of p53 Conformation and Induction of Apoptosis in a Murine Erythroleukemia Cell Line By Dimethylsulfoxide, <i>Leukemia Research</i> , 18:617-621 (1994)	
CC	AGG	Santoro, <i>et al.</i> , Increased Thermal Stability of Proteins in the Presence of Naturally Occurring Osmolytes, <i>Biochemistry</i> 31:5278-5283 (1992)	
CC	AHH	Sato, <i>et al.</i> , Glycerol Reverses the Misfolding Phenotype of the Most Common Cystic Fibrosis Mutation, <i>Journal of Biological Chemistry</i> , 271:635-638 (1996)	
CC	AII	Schein, Solubility as a Function of Protein Structure and Solvent Components, <i>Bio/Technology</i> , 8:308-317 (1990)	
CC	AJJ	Somero, Protons, osmolytes, and fitness of internal milieu for protein function, <i>American Physiological Society</i> , R197-R213 (1986)	
CC	AKK	Tatzelt, <i>et al.</i> , Chemical chaperones interfere with the formation of scrapie prion protein, <i>The EMBO Journal</i> , 15:6363-6373 (1996)	
CC	ALL	Th'ng, <i>et al.</i> , The FT210 Cell Line Is a Mouse G2 Phase Mutant with a Temperature-Sensitive CDC2 Gene Product, <i>Cell</i> , 63:313-324 (1990)	
CC	AMM	Thomas, <i>et al.</i> , Defective protein folding as a basis of human disease, <i>TIBS</i> 20:456-459 (1995)	
CC	ANN	Welch, <i>et al.</i> , Influence of molecular and chemical chaperones on protein folding, <i>Cell Stress & Chaperones</i> , 1 (2), 109-115 (1996)	
CC	AOO	Yancey, <i>et al.</i> , Living with Water Stress: Evolution of Osmolyte Systems, <i>Science</i> , 217:1214-1222 (1982)	

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